

**REMARKS**

Claims 1-15 are currently pending in this application. Pursuant to the October 8, 2008 Office Action, claims 3, 4, 11, and 12 were stated to contain allowable subject matter and claims 1, 2, 5-10, and 13-15 were rejected. Applicant respectfully traverses these claim rejections for the reasons set forth in detail below.

**Claim Rejections – 35 U.S.C. § 102(b)**

Claims 1, 2, 5-10 and 13-15 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent No. 6,219,099 (Johnson et al.). As set forth in detail below, Applicants respectfully submit that there are a plurality of differences between the presently claimed invention and Johnson et al.

(1) The Office Action states that the claim 1 element of “displaying an offset image with a back signal level at an image display section in said image display device” is disclosed at col. 7, lines 20-26, of Johnson et al. Independent claims 2, 9, and 10 recite similar subject matter and the Office Action relies on the same disclosure in Johnson to reject these claims. Applicant respectfully submits that the “offsetting” disclosed in Johnson et al. is distinguishable from that of the presently claimed invention. In Johnson et al., the term “offset” is used to describe the displacement between a field-of-view of camera and a field-of-view of projector. In contrast, the term “offset” as used in the context of the presently claimed invention refers to an image corresponding to a black signal level. Thus, the term “offset” is used in different and unrelated contexts in Johnson and the present

invention. Furthermore, Johnson et al. does not contain any teaching or suggestion of an image corresponding to a black signal level.

Based on the foregoing, Applicants respectfully submit that there is no teaching or suggestion in Johnson of “displaying an offset image with a back signal level at an image display section in said image display device” as recited independent claims 1 and 2 or of “calibration patterns of an offset image at a black level” as recited in independent claims 9 and 10 of the present invention.

(2) The Office Action states that the claim 1 element of “capturing said offset image by successively switching filters having bands corresponding to said plurality of primary colors, respectively, so as to acquire a multiband offset captured data” is disclosed at col. 5, lines 50-54, and col. 8, lines 3-7, of Johnson et al. Column 5, lines 50-54, of Johnson describes the projector structure illustrated in Figure 2 which utilizes a Digital Micromirror Device (DMD) with a built-in red-green-blue (RGB) color filter. As disclosed, the RGB color filter (18) lies within the illumination path (12) and light which is passed through the filter (18) is directed to the DMD before entering the projection path (14). The presently claimed invention is distinguishable because it successively switches filters during image acquisition. Therefore, the filtering exists at the imaging acquisition side. Thus, the filters used in Johnson et al. and the present invention are used in completely different manners.

Furthermore, while col. 8, lines 3-7, of Johnson et al. states that “the cameras preferably include a photopic filter,” the purpose of this filter is “to measure the output image in a manner that is consistent with the human visual system.” Thus, the purpose of this filter is also distinguishable from the filter used in the presently claimed invention.

Independent claims 2, 9, and 10 recite similar subject matter as independent claim 1, and were rejected citing the identical disclosure in Johnson et al. Applicant respectfully submits that independent claims 2, 9, and 10 are distinguishable from Johnson et al. for the same reasons discussed above with respect to claim 1.

(3) The Office Action states that the claim 1 elements of “sequentially displaying primary color images at said image display section, said primary color images having predetermined signal levels for the corresponding primary colors” and “displaying primary color scale images at said image display section, said primary color scale images having an input signal level that is gradually changed for each of the corresponding primary colors,” are disclosed at col. 5, lns. 52-64, of Johnson et al. As previously discussed, this disclosure in Johnson et al. only describes the projector structure illustrated in Figure 2 which utilizes a DMD with a built-in RGB color filter. There is no teaching or suggestion in Johnson et al. of “sequentially displaying primary color images having predetermined signal levels for the corresponding primary colors.” Furthermore, Johnson et al. does not teach

or suggest “changing the input signal level gradually and displaying the color scale images.”

Based on the foregoing, Applicant respectfully submits that independent claim 1 of the present invention is distinguishable from Johnson et al. Because independent claims 2, 9, and 10 recite substantially similar features, these claims are distinguishable over Johnson for the same reasons provided above with respect to independent claim 1.

(4) The Office Action states that the claim 1 element of “sequentially capturing said primary color scale images so as to acquire a primary color scale captured data,” is disclosed at col. 7, lines 4-14, of Johnson et al. Applicant respectfully submits that the disclosure at col. 7, lines 4-14, of Johnson et al. is directed to differentiating the field of view of each camera. There is no teaching or suggestion of changing the color scale during imaging and acquiring resultant image data as recited in claim 1.

Based on the foregoing, Applicant respectfully submits that independent claim 1 of the present invention is distinguishable from Johnson et al. Because independent claims 2, 9, and 10 recite substantially similar features, these claims are distinguishable over Johnson for the same reasons provided above with respect to independent claim 1.

(5) The Office Action states that the claim 1 element of “calculating an offset correction data based on said multiband offset captured data, said multiband

primary color captured data, and said primary color scale captured data," is disclosed at col. 11, lines 17-23, of Johnson. This disclosure in Johnson et al. is directed to extracting gamma, gain, and offset values for the camera and projectors to perform color adjustment. These values are then used to generate transformation coefficients for spatial and color transformation. The present invention is distinguishable from Johnson because the "offset correction data" of claim 1 is based on the multiband offset captured data, the multiband primary color captured data, and the primary color scale captured data. This data is different than the gamma, gain, and offset values disclosed in Johnson et al.

Based on the foregoing, Applicant respectfully submits that independent claim 1 of the present invention is distinguishable from Johnson et al. Because independent claims 2, 9, and 10 recite substantially similar features, these claims are distinguishable over Johnson for the same reasons provided above with respect to independent claim 1.

Claims 5-8 are depend from claim 1 and claims 13-15 are depend from claim 2, and are believed to be allowable over the cited prior art of record for the same reasons provided above with regards to independent claims 1 and 2.

Based on the arguments presented above, withdrawal of the anticipation rejections of claims 1, 2, 5-10 and 13-15 is respectfully requested.

**Applicant:** Takeyuki Ajito  
**Application No.:** 10/561,630

**Conclusion**

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephone interview will help to materially advance the prosecution of this application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

In view of the foregoing remarks, Applicants respectfully submit that the present application, including claims 1-15, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

Tekeyuki Ajito

By /Ryan W. O'Donnell/

Ryan W. O'Donnell  
Registration No. 53,401

Volpe and Koenig, P.C.  
United Plaza, Suite 1600  
30 South 17th Street  
Philadelphia, PA 19103  
Telephone: (215) 568-6400  
Facsimile: (215) 568-6499

RWO/dml